

1 **WIRELESS AUGMENTED REALITY COMMUNICATION SYSTEM**

2 **ABSTRACT**

3 The system of the present invention is a highly integrated radio communication system
4 with a multimedia co-processor which allows true two-way multimedia (video, audio, data)
5 access as well as real-time biomedical monitoring in a pager-sized portable access unit. The
6 system is integrated in a network structure including one or more general purpose nodes for
7 providing a wireless-to-wired interface. The network architecture allows video, audio and data
8 (including biomedical data) streams to be connected directly to external users and devices. The
9 portable access units may also be mated to various non-personal devices such as cameras or
10 environmental sensors for providing a method for setting up wireless sensor nets from which
11 reported data may be accessed through the portable access unit. The reported data may
12 alternatively be automatically logged at a remote computer for access and viewing through a
13 portable access unit, including the user's own.